

FIG. 2A

TEN DIGITS OF CALLER ID DATA RETRIEVED  
FROM : CALLING LIST : STRUCTURE :

COMPARE AREA CODE OF PHONE NUMBER  
AGAINST THE LOCAL AREA CODE TABLE.

No	MATCH AN ENTRY IN	YES
	LOCAL AREA CODE TABLE?	

ADD A 1 IN FRONT  
OF PHONE NUMBER

MATCHED ENTRY:  
PROGRAMMED FOR  
7 OR 10 DIGITS

STRIP 15 THREE DIGITS  
OF PHONE NUMBER 100

DIAL  
AS IS

LINE AVAILABLE ?

ENTER QUEUE  
TO WAIT FOR LINE

SEIZE LINE

## ASTRO DTMF SENDER

DIAL PHONE NUMBER

FILE ZB

FIG. 3

FIG. 3

300

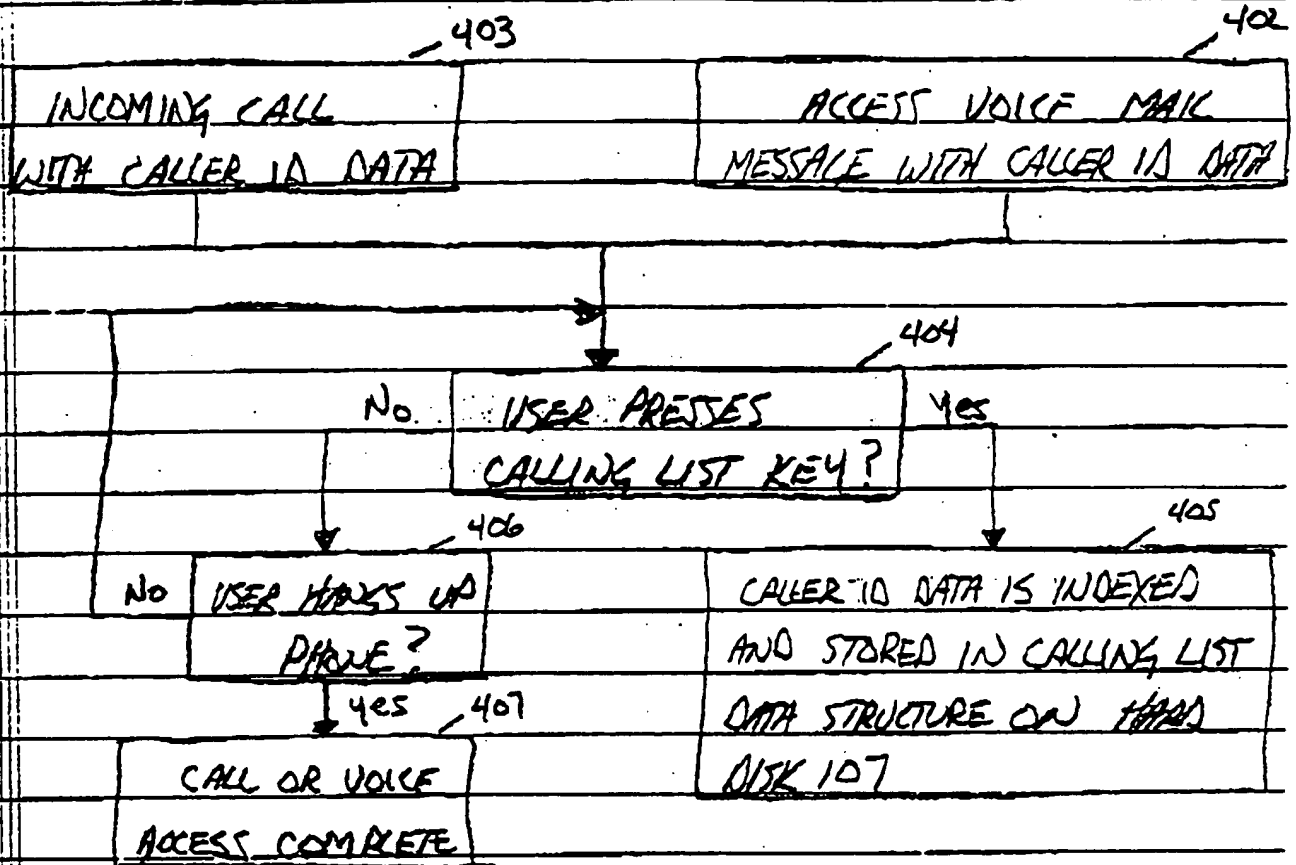


FIG. 4

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graph LR
    501[DTMF Receivers] --> 502[Automatic Gain Control]
    502 --> 503[Recording buffers]
    503 --> 508[Play buffers]
    508 --> 504[FAX TONE DET.]
    504 --> 505[Caller ID Module]
    505 --> 506[CONFERENCE BRIDGES]
    506 --> 507[CALL PROCESSING TONE GEN.]
    507 --> 102[ ]
    subgraph Features
        507 --- F1[-DT]
        507 --- F2[-RT/RTT]
        507 --- F3[-FAX]
        507 --- F4[-Single tones]
        507 --- F5[-DTMF Send/Recv]
    end

```

FIG. 5

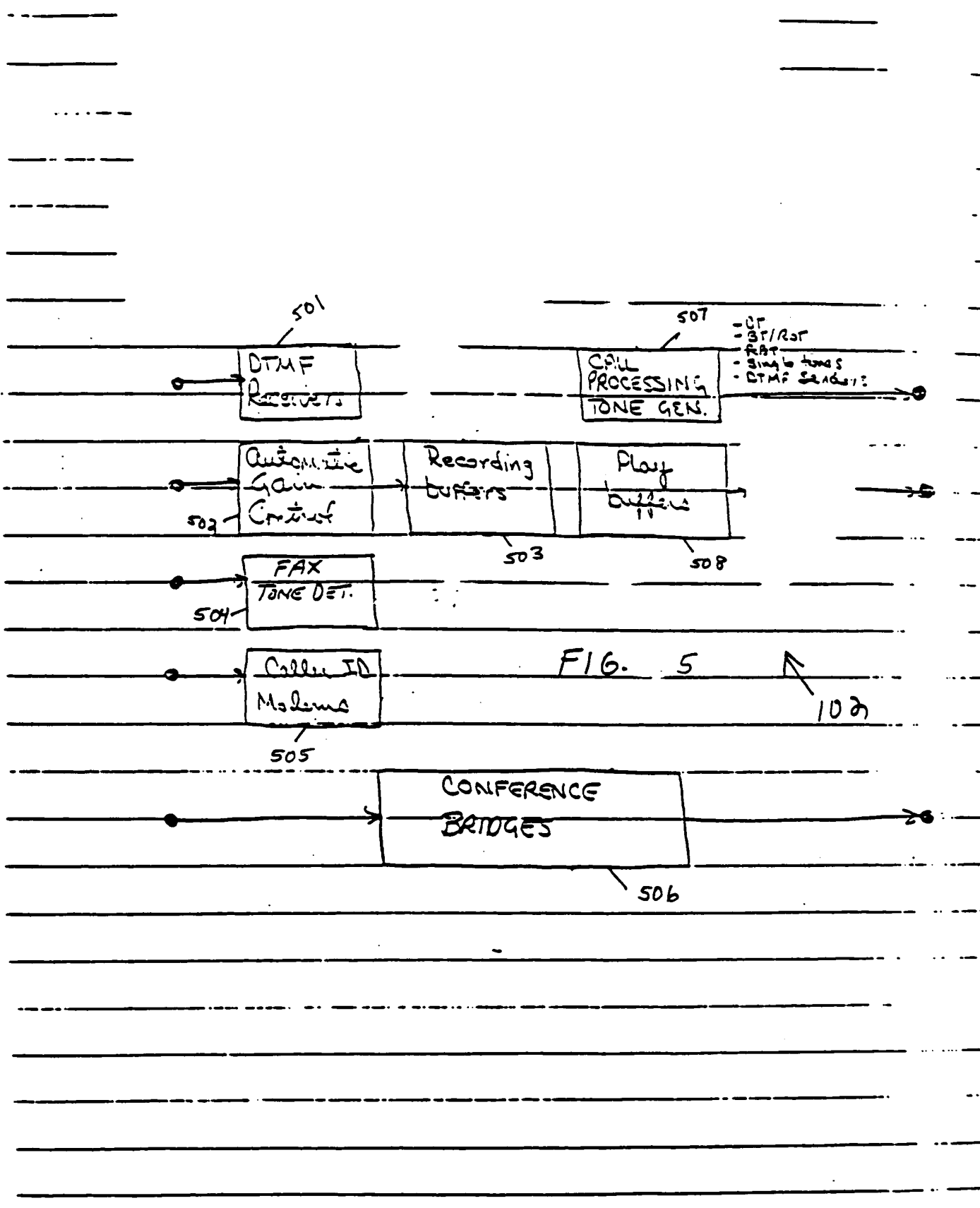


FIG. 6

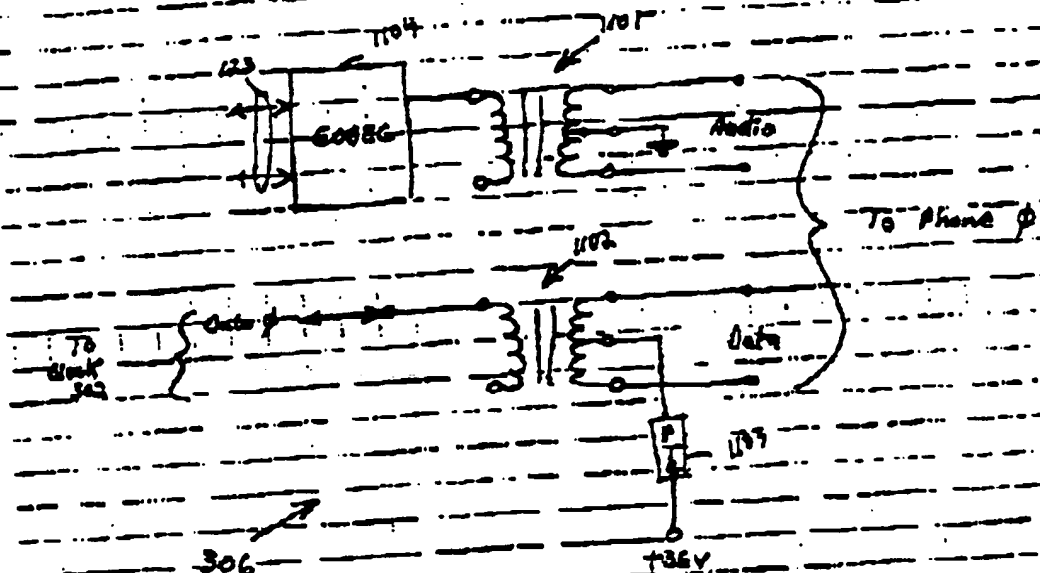


FIG. 7

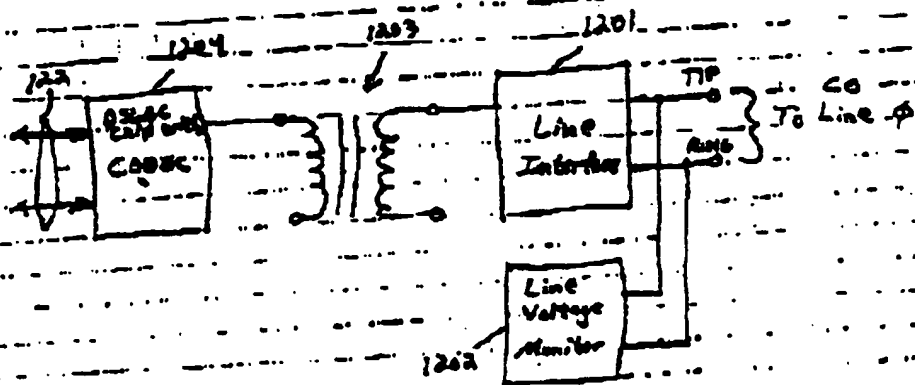
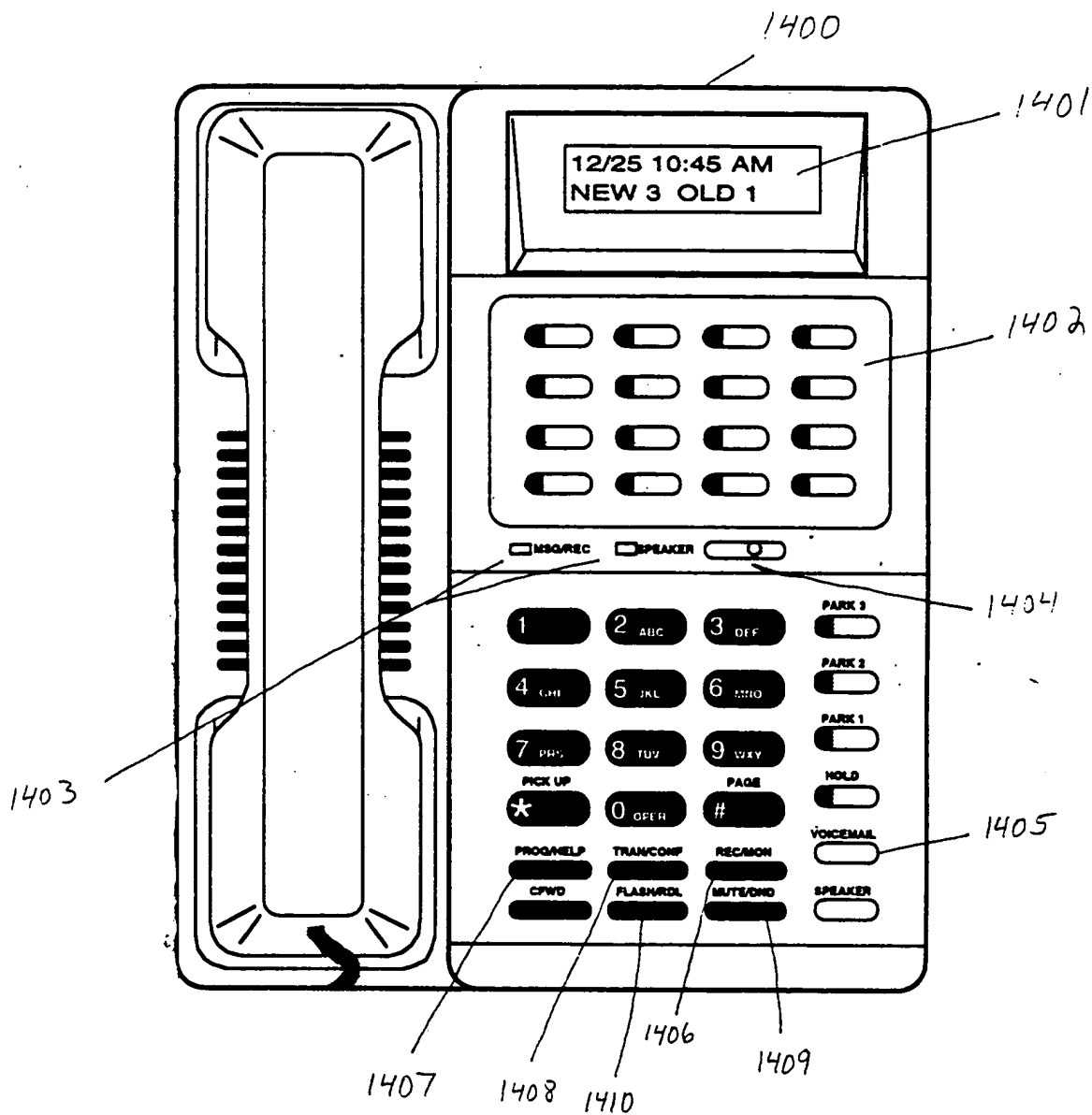


FIG. 8





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graph TD
    901[OUTSIDE CALL RINGS IN] --> 902{CALLER ID DATA AVAILABLE ON THE CALL?}
    902 -- NO --> 903[CALLER ID DATA STORED IN CALL STRUCTURE]
    902 -- YES --> 904[CALLER DIALS AN EXTENSION]
    904 --> 905{EXTENSION ANSWERED?}
    905 -- YES --> 906[NORMAL CALL]
    905 -- NO --> 907[VOICE MAIL SYSTEM ANSWERS CALL]
    907 --> 908[CALLER LEAVES MESSAGE]
    908 --> 909{CALLER ID DATA AVAILABLE?}
    909 -- NO --> 910[MESSAGE STORED WITHOUT CALLER ID DATA]
    909 -- YES --> 911[TEN DIGITS OF CALLER ID DATA STORED IN MAIL BOX MESSAGE STRUCTURE]
  
```

FILE-9

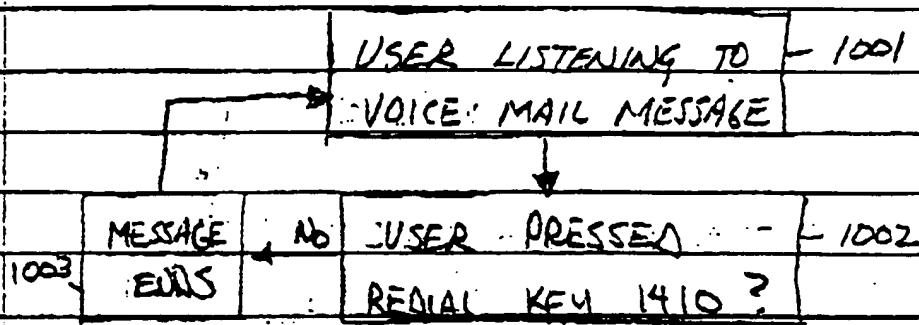
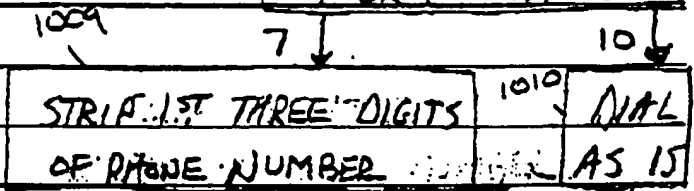
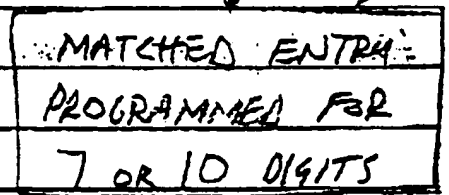
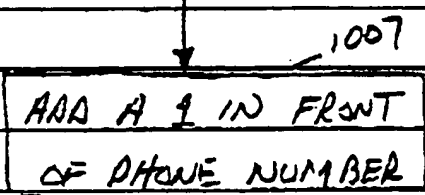
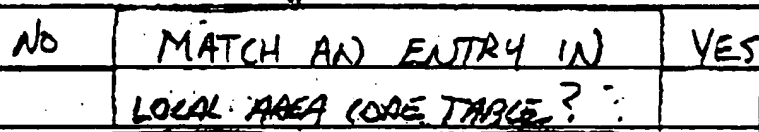
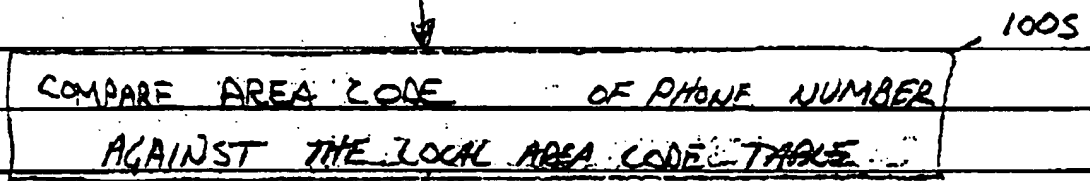
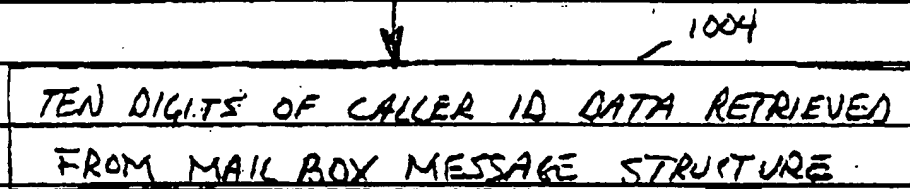
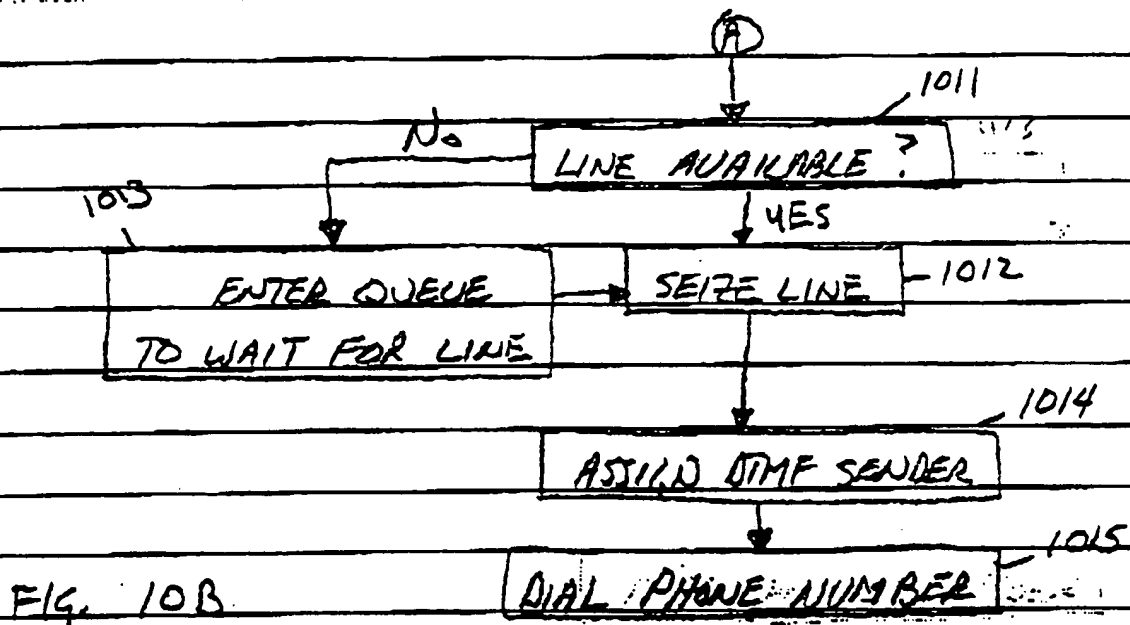


FIG. 10A



(A)



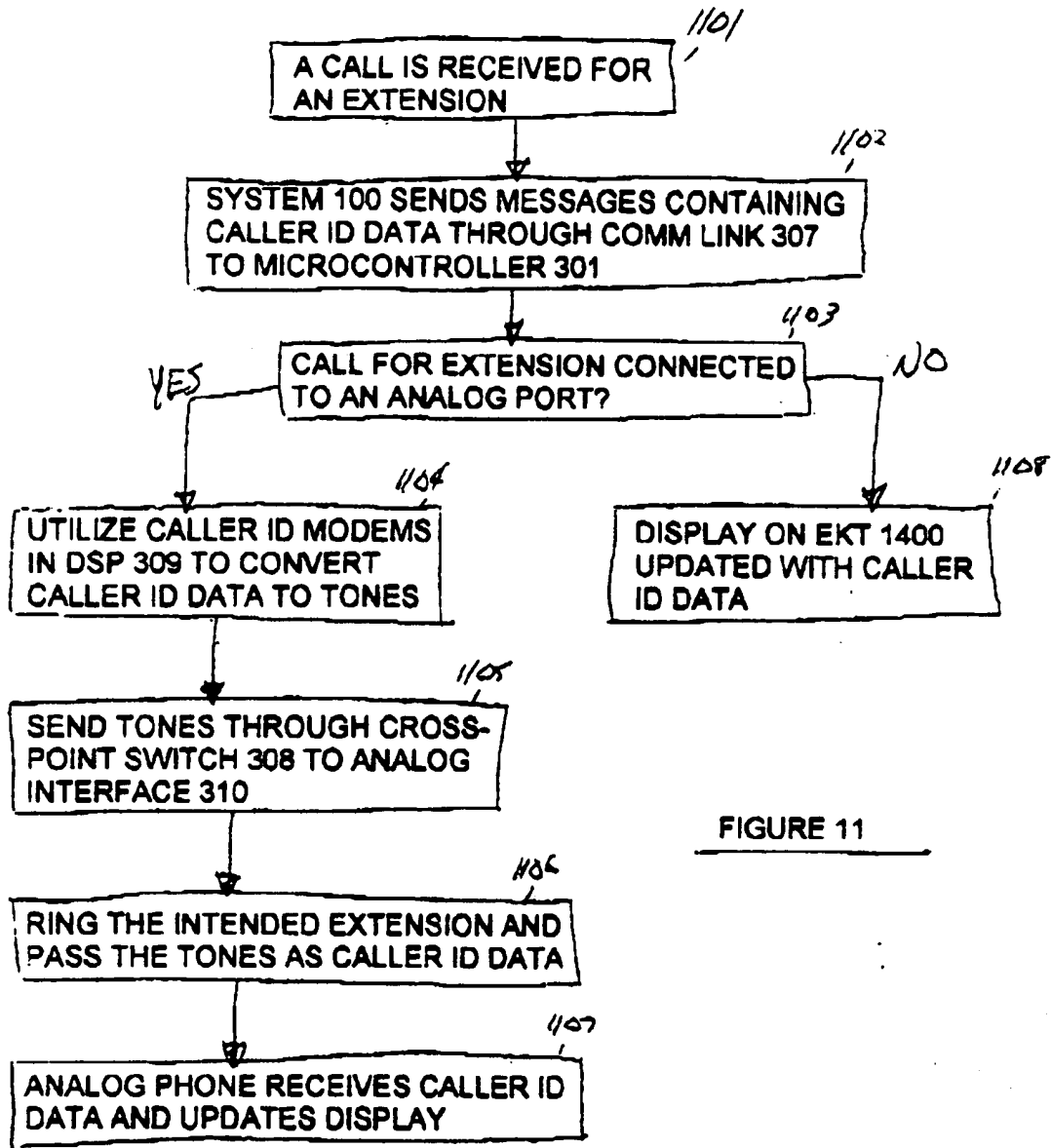


FIGURE 11

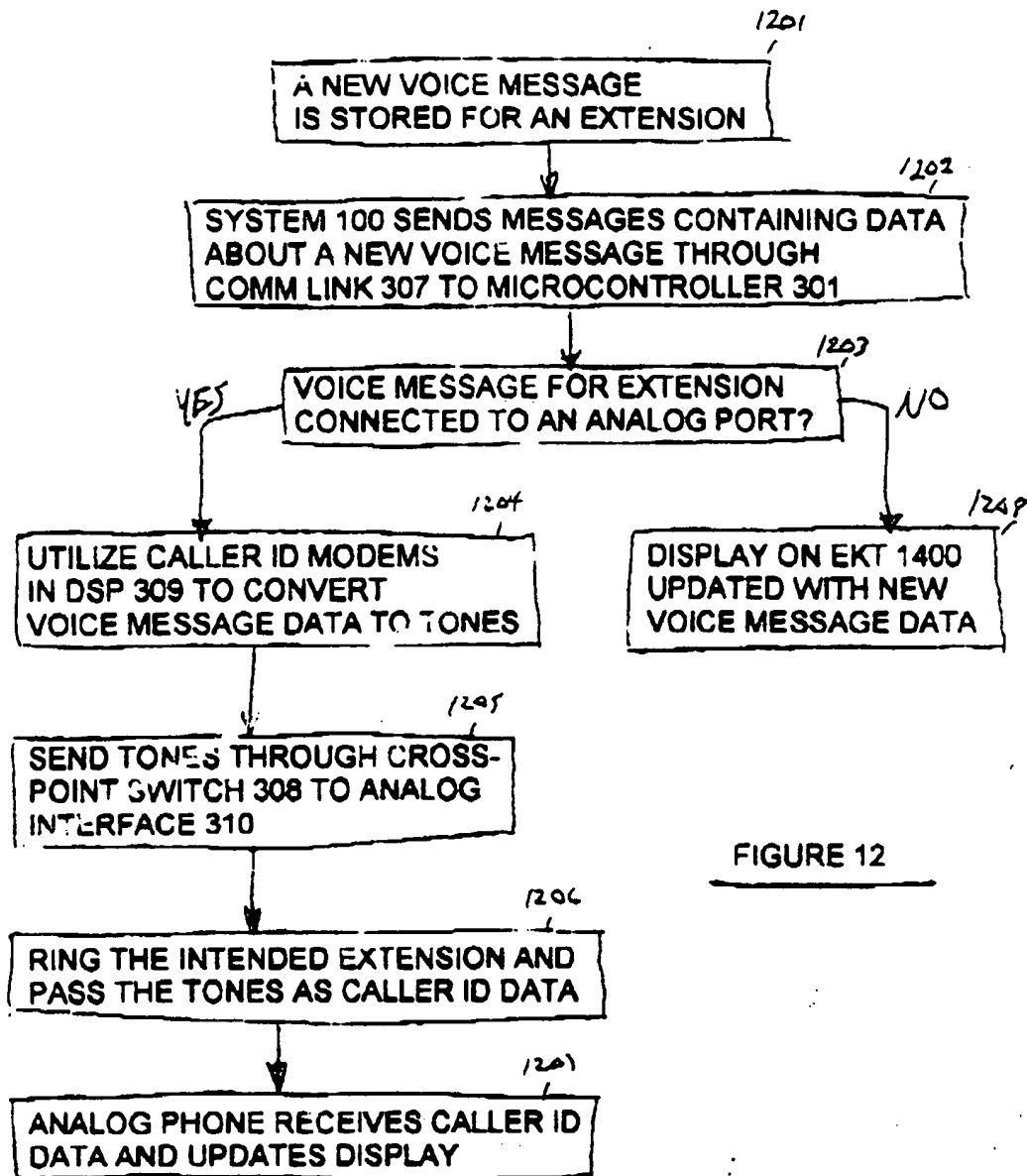


FIGURE 12

1301

